



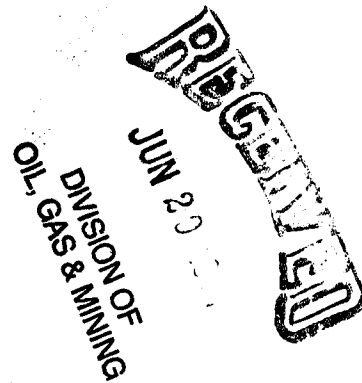
POWERS ELEVATION

OIL WELL ELEVATIONS AND LOCATIONS
CHERRY CREEK PLAZA, SUITE 1201
800 SOUTH CHERRY STREET
DENVER, COLORADO 80222
PHONE NO. 303/321-2217

June 25, 1981

State of Utah
Division of Oil, Gas, and Minerals
1588 West North Temple
Salt Lake City, Utah 84116

RE: Filing Application for Permit to Drill
S.W. Energy Corporation
#27-2 Federal
NW NW Sec. 27 T23S R17E
660' FNL & 660' FWL
Grand County, Utah



Gentlemen:

Enclosed are three copies each of the Federal A.P.D. Form 9-331C, the Location and Elevation Plat, the Ten-Point Compliance Program, and the Blowout Preventer Diagram for the above-referenced well location.

Please return the approved copies to:

Richard Smoot
S.W. Energy Corporation
847 E. 4th South
Salt Lake City, Utah

Very truly yours,

POWERS ELEVATION

Connie L. Frailey
Manager, Environmental Department

CLF/mm
Enclosures

cc: Richard Smoot

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

S.W. Energy Corporation

3. ADDRESS OF OPERATOR

847 E. 4th South, Salt Lake City, Utah 84102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface
660' FNL & 660' FWL (NW NW)

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

20.3 miles southwest of Crescent Junction, Utah.

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

520

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

8800'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4116' GR

22. APPROX. DATE WORK WILL START*

July 7, 1981

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-3/4"	9-5/8" new	36# K-55 8 Rd.	450'	circulate to surface
8-3/4"	5-1/2" new	17 & 20# N-80 8 Rd.	8800'	1000 sacks plus 600 sacks

1. Drill 12-3/4" hole and set 9-5/8" surface casing to 450' with good returns.
2. Log B.O.P. checks in daily drill reports and drill 8-3/4" hole to 8800'.
3. Run tests if warranted and run 5-1/2" casing if productive.
4. Run logs as needed, and perforate and stimulate as needed.

EXHIBITS ATTACHED:

- "A" Location and Elevation Plat
"B" The Ten-Point Compliance Program
"C" The Blowout Preventer Diagram
"D" The Multi-Point Requirements for A.P.D.
"E" & "E₁" Access Road Maps to Location
"F" Radius Map of Field
"G" & "G₁" Drill Pad Layout, Production Facilities & Cut-Fill Cross-Section
"H" Drill Rig Layout

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 7/16/81

BY: [Signature]

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Richard P. [Signature]

TITLE

President

DATE

June 25, 1981

(This space for Federal or State office use)

PERMIT NO.

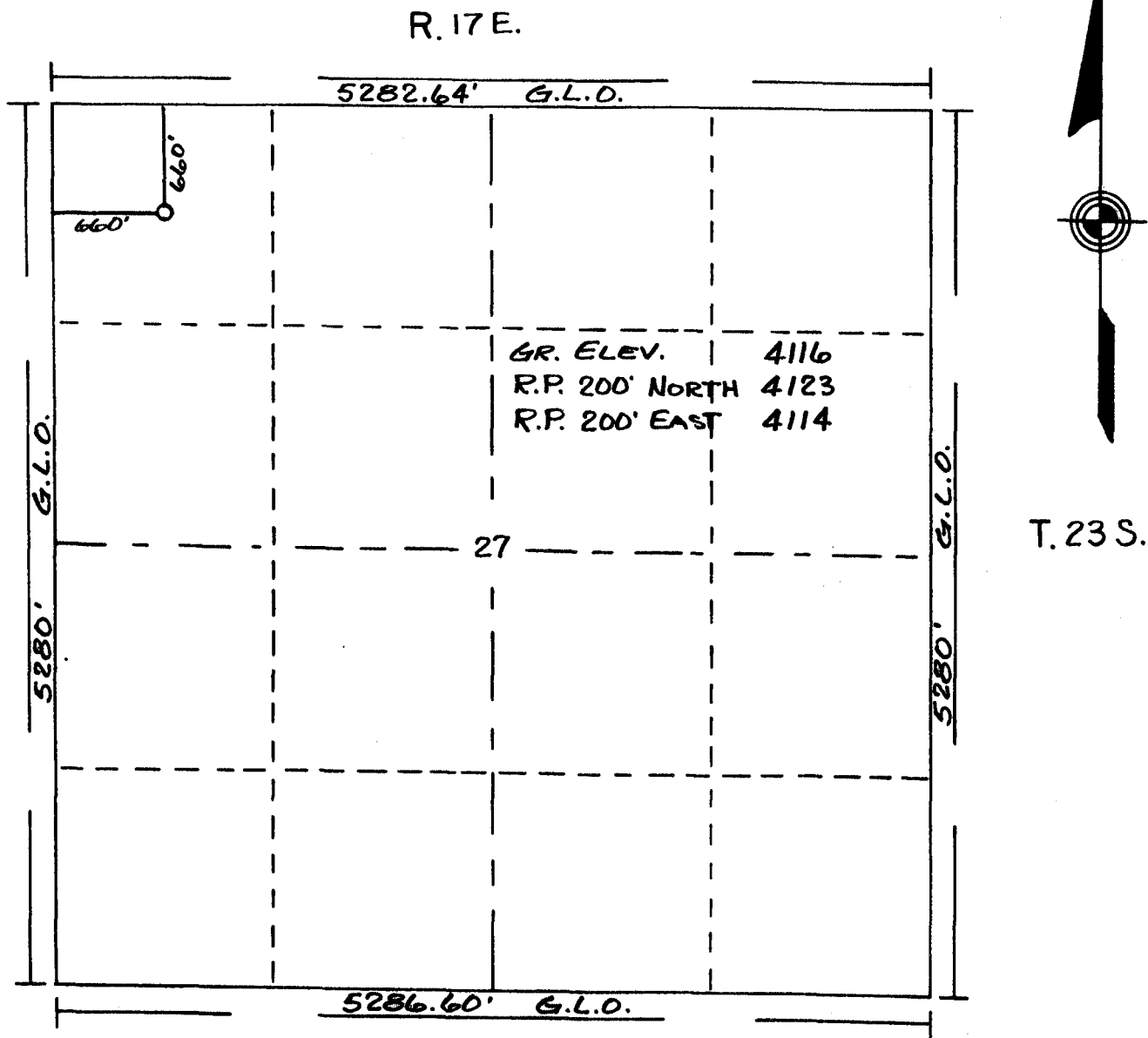
APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
has in accordance with a request from **RICHARD P. SMOOT**
for **S.W. Energy Corporation**
determined the location of #27-2 Federal
to be **660' FNL & 660' FWL** Section 27 Township 23 South
Range 17 EAST of the **SALT LAKE Meridian**
GRAND County, UTAH

I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of
27-2

Date: JUNE 23, 1981

Edward A. Lewis
Licensed Land Surveyor No. 5443
State of UTAH

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM

OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C
S.W. Energy Corporation
#27-2 Federal
NW NW Sec. 27 T23S R17E
660' FNL & 660' FWL
Grand County, Utah

1. The Geological Surface Formation

The surface formation is the Entrada.

2. Estimated Tops of Important Geologic Markers

Carmel	500'
Navajo	600'
Kayanta	910'
Wingate	1030'
Chinle	1568'
Moenkopi	1950'
Coconino	2550'
Lower Permian	3100'
Upper Hermosa	4050'
Top of Salt	5200'
Base of Salt	8200'
Top of Mississippian	8400'
Base of Mississippian	8800'
Total Depth	8800'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Oil 8500' - 8800'

4. The Proposed Casing Program

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE & JOINT</u>	<u>NEW OR USED</u>
12 3/4"	0 - 450'	450'	9 5/8"	36# K-55 8rd.	New
8 3/4"	0 - 8800'	8800'	5 1/2"	17 & 20# N-80 8rd.	New

Cement Program:

Surface - Cement will be circulated to surface.

Production - Lead with 1000 sacks and tail in 600 sacks plus additives.

5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to the half of working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams and annular preventer each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include an upper kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

Mud system will be gel-chemical with adequate stocks of sorptive agents on site to handle possible spills of fuel and oil on the surface. Heavier muds will be on location to be added if pressure requires.

<u>DEPTH</u>	<u>TYPE</u>	<u>WEIGHT #/gal.</u>	<u>VISCOSITY-sec./qt.</u>
0 - 5000'	Bentonite Ligna-Sulfonate	40	9 - 2
5000' - TD	Polamer Saturated Brine	35	10 - 4

7. The Auxiliary Equipment to be Used

- (a) An upper kelly cock will be kept in the string.
- (b) A float will be used at the bit.
- (c) A mud logging unit (below 5000') and gas detecting device will be monitoring the system. Other monitoring will include a pit fill indicator.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. The Testing, Logging and Coring Programs to be Followed

- (a) No drill stem tests are anticipated.
- (b) The logging program will consist of the following:
Dual Laterolog, Compensated Formation Neutron and Density Compensated Sonic Log. Open Hole Fracture Detection Log, Gamma Ray-Caliper from TD to surface.

(c) No coring is anticipated.

(d) Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate Sundry Notice will be submitted for approval.

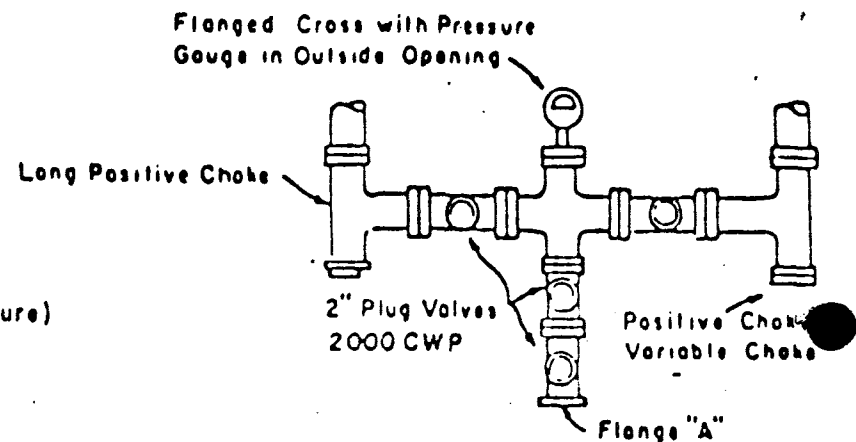
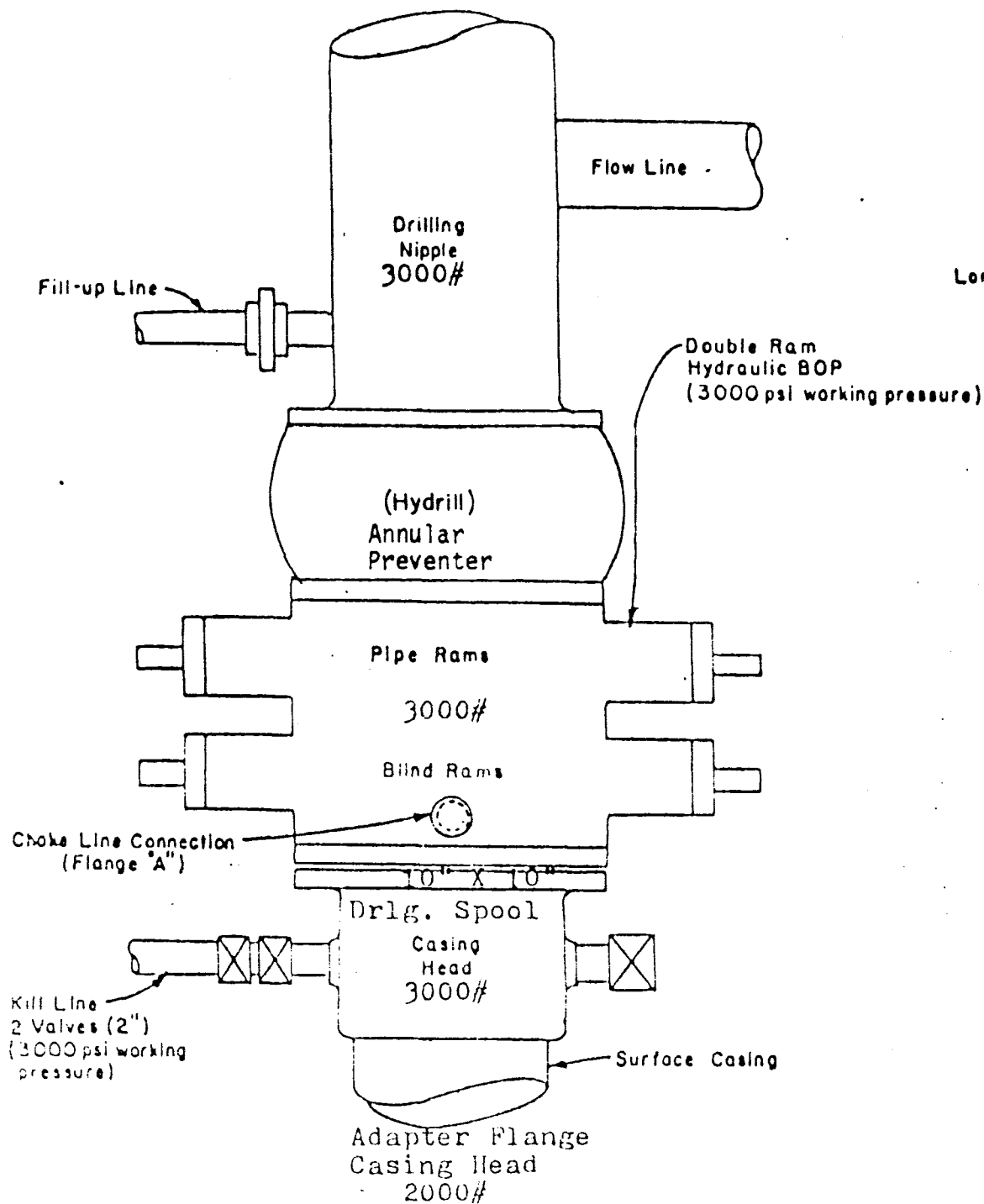
9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well. Bottom hole pressure expected is 4000#.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for July 7, 1981, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 30 days after spudding the well to casing point.



PLAN VIEW-CHOKE MANIFOLD

EXHIBIT "C"
BLOWOUT PREVENTER
DIAGRAM

**** FILE NOTATIONS ****

DATE: July 8, 1981
OPERATOR: S.W. Energy Corp.
WELL NO: Federal #27-2
Location: Sec. 27 T. 23S R. 17E County: Grand

File Prepared: ☒ Entered on N.I.D: ☒
Card Indexed: ☒ Completion Sheet: ☒

API Number 43-019-30829

CHECKED BY:

Petroleum Engineer: _____

Director: OK [signature]

Administrative Aide: ok as per Rule C-3, ok on boundaries,
ok on any other oil or gas wells

APPROVAL LETTER:

Bond Required: ☐ Survey Plat Required: ☐

Order No. _____ O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage
within a 660' radius of proposed site ☐

Lease Designation ☒ Plotted on Map ☐

Approval Letter Written ☐

Hot Line ☐ P.I. ☐

July 17, 1981

S.W. Energy Corporation
847 E. 4th So.
Salt Lake City, Utah

RE: Well No. Federal #27-2
Sec. 27, T. 23S, R. 17E,
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30829.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Cleon B. Feight
Director

CBF/db
CC: USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

S.W. Energy Corporation

3. ADDRESS OF OPERATOR

847 E. 4th South, Salt Lake City, Utah 84102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

660' FNL & 660' FWL (NW NW)

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

20.3 miles southwest of Crescent Junction, Utah.

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

520

17. NO. OF ACRES ASSIGNED

TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

8800'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4116' GR

22. APPROX. DATE WORK WILL START*

July 7, 1981

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTLEMENT	TH	QUANTITY OF CEMENT
12-3/4"	9-5/8" new	36# K-55 8 Rd.	450'		circulate to surface
8-3/4"	5-1/2" new	17 & 20# N-80 8	Rd. 8800'		1000 sacks plus 600 sacks

1. Drill 12-3/4" hole and set 9-5/8" surface casing to 450' with good returns.
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EXHIBITS ATTACHED:

- "A" Location and Elevation Plat
- "B" The Ten-Point Compliance Program
- "C" The Blowout Preventer Diagram
- "D" The Multi-Point Requirements for A.P.D.
- "E" & "E₁" Access Road Maps to Location
- "F" Radius Map of Field
- "G" & "G₁" Drill Pad Layout, Production Facilities & Cut-Fill Cross-Section
- "H" Drill Rig Layout

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Richard P. Smoot

TITLE

President

DATE

June 25, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

FOR

E. W. GUYNN
DISTRICT ENGINEER

DATE

JUL 28 1981

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED
NOTICE OF APPROVAL TO OPERATOR'S COPYFLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

United States Department of the Interior
Geological Survey
Oil and Gas Operations
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator/Project Name J.W. Energy Corp. Federal #27-2
Project Type Wildcat Oil Test
Project Location 660' FNL, 660' FWL, Sec. 27, T23S, R17E, Grand Co., Utah
Date Project Submitted June 26, 1981

FIELD INSPECTIONDate July 17, 1981Field Inspection
Participants

R. P. Smoot - Operator
Lewis Wilcox - Dirt contractor
Pat Driscoll - Consultant
Bill Cobble - Powers Elevation
Jeff Robbins, Mical Walker - BLM
Glenn Doyle - USGS
Gene Dunham - Rancher

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

July 27, 1981
Date Prepared

Glenn M. Doyle
Environmental Scientist

I concur

JUL 28 1981
Date

WT Martin FOR
District Supervisor
E. W. GUYNN
DISTRICT ENGINEER

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria	Federal/State Agency			Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Correspondence (date)	Phone check (date)	Meeting (date)						
516 DM 2.3.A									
Public health and safety					1, 2			7/17/81	
Unique characteristics					1, 2		* Sand dunes		
Environmentally controversial					1, 2				
Uncertain and unknown risks						4			
Establishes precedents					1, 2				
Cumulatively significant					1, 2		6		
National Register historic places	1- 7/27/81								
Endangered/threatened species	1- 7/27/81								
Violate Federal, State, local, tribal law						4			3

its - specific stipulations attached
 Shifting sand dunes surround wellsite, See memo attached.

COMMON REFERENCE LIST

NEPA Categorical Exclusion Review

1. SMA Input
2. Reviews, reports, or information received from Geological Survey (CD, GD, WRD, TD).
3. Lease Stipulations/Terms
4. Application to Drill
5. Operator correspondence
6. Field observation
7. Private Rehabilitation Agreement

Site-specific Stipulations

- 1) Line the reserve pit with a minimum 10 mil thick plastic liner underlain by a 4" - 6" sand blanket. The edges of the plastic will be overlapped a minimum of four feet, folded, and taped together. The pit will be key-seated.
- 2) The edge of the pad between the shale shaker and the reserve pit will be rounded, to effect drainage, and lined with 10 mil thick plastic to impede seeping and sloughing.
- 3) The reserve pit will be widened by 10 feet to facilitate lining with plastic.
- 4) Construct a berm on the northwest edge of the pad around the WNW edge to the south edge. This will counteract the migration of shifting sand dunes somewhat.
- 5) Mineral Evaluation reports freshwater may be present down to 480' (Cutler Formation). Accordingly, the surface casing will be set to 500' to accommodate this situation.

Company: S. W. Energy
Well: 27-2
Section 27, T. 23 S., R. 27 E.

ADDITIONS TO THE MULTIPOINT
SURFACE USE PLAN
AND
RECLAMATION PROCEDURES

CONSTRUCTION:

1. The operator or his contractor will contact the Grand Resource Area Office in Moab, Utah (phone (801) 259-6111) 48 hours prior to beginning any work on public land.
2. The dirt contractor will be furnished with an approved copy of the surface use plan and any additional BLM stipulations prior to any work.
3. Use of water from sources such as wells, springs, streams, or stock ponds for activities associated with this well will be approved, prior to use, by the agency or individual holding the water right.
4. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the Grand Resource Area Office will be contacted. All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
5. Improvement to the existing road will not be necessary.

New Road construction will be limited to a total disturbed width of 24 feet. The allowable travel surface width will be 16 feet. The road will meander between the dunes to avoid excess cut.

Topsoil will not be saved along the route.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

Surfacing material will not be placed on the access road or location without prior BLM approval.

6. The top 12 inches of soil material will be removed from the location and stockpiled as shown on exhibit H of the NTL - 6. Topsoil will be saved on the dunes that have vegetation on them and off of the red dirt.

7. The reserve pit will be lined with a plastic sufficient to prevent seepage. Keyway. The reserve pit banks will be 1.5 to 2.0 feet above pad and constructed in 8" lifts, machinery compacted, and sufficiently wide for equipment to pass over. The reserve pit will be 10 feet wider to facilitate the plastic liner. The reserve pit will be excavated with rounded edges.
8. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying. The fence will be 4 strand barbed wire with spacing 12" X 12" X 12" X 12".
9. A berm will be constructed from the NW edge of the pad around the outside of the trash cage, mud house, and water tank to the pipe racks.

Rehabilitation

1. Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the trash pit/cage. Non-burnable debris will be hauled to a local town dump site.
2. The operator or his contractor will contact the Grand Resource Area BLM office in Moab, Utah, phone (801) 259-6111, 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.
3. Before any dirt work to restore the location takes place, the reserve pit must be completely dry and any trash (barrels, metal etc.) it contains must be removed from public lands.
4. All disturbed areas will be recontoured to blend as nearly as possible with the surrounding area.
5. The stockpiled topsoil will be evenly distributed over the disturbed area.
6. All disturbed areas will be scarified with the contour to a depth of 12 inches. Do not smooth pads out, leave a roughened surface.
7. Seed will be (broadcast/drilled) at a time to be specified by the BLM with the enclosed seed prescription. When broadcast seeding, a harrow or some such implement will be dragged over the seeded area to assure seed cover.
9. Waterbars will be used on all sloping surfaces as shown below:

Grade

2%
2-4%
4-5%
+5%

Spacing

200 ft. spacing
100 ft. spacing
75 ft. spacing
50 ft. spacing

Production

1. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section. Any remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.
2. All above-ground production facilities will be painted using the attached suggested colors.
3. The road will be designed to a standard to be discussed when a permanent right-of-way is filed.

UNITED STATES GOVERNMENT

Memorandum

TO : W. P. Martens, District Engineer,
Drilling

FROM : H. M. Doyle, Environmental Scientist

SUBJECT: S.W. Energy Fed. #27-2, Sec. 27, T23S, R17E, Grand Co.,
Utah

DATE: July 27, 1981

Mr. Bill - This location lies within an area of actively shifting sand dunes. Outside of denying the location, the mitigation of the effects on the safety of operations, and the alteration of sand dunes environment is severely limited. Stipulation No. 4, attached to the CER, is an attempt at controlling the effects of windblown sand migration through minimum surface disturbance. ~~and~~ The effects of windblown sand will depend greatly on the wind patterns during drilling operations. This cannot be predicted.

I've attached a portion of the Glen Canyon EA which describes the effects of windblown sands on rig operations and personnel safety in an attempt to explain this potential geologic hazard.

If you have any questions, give me a call.

Glen



Various other appraisals of oil-saturated bitumens in the TST characterize the pay zone as containing numerous thin zones within a thick, gross interval. Oil-bearing intervals are considered discontinuous, possessing porosities of less than 20% and oil saturation of less than 50%. Crude oils extracted from the area would be expected to be high in sulfur content; up to 3.6%, or 36,000 parts per million.

Technically speaking, modified in-situ methods such as steam injection and fire-flooding are the most feasible, promising up to a possible 50% resource recovery.

Based on these appraisals and the production history of the region, the possibility of naturally producing oil seems remote and the likelihood of encountering oil-saturated bitumen more plausible. If natural production is established, the nature of the oil should be made available to the USGS.

Presence of Other Known Mineral Resources that Require Protection:

No other mineral resources have been identified by the Salt Lake City District Geologist in his report on this well (See Appendix IV), therefore, no special protection measures are required.

Geologic Hazards:

No known, active fault zones are located within the vicinity of the test well. Algermissen and Perkins (1977) categorize the southern Utah region as one of minor seismic risk.

Subsidence may occur anytime that fluids (oil, gas, water, etc.) are extracted from the subsurface. (Keller, 1976) The nature of the formation(s) involved, as defined by their permeability, porosity, and compaction characteristics, will determine whether or not subsidence will occur. No specific data on this subject is available. Therefore, the only conclusion that can be drawn is that the possibility exists that subsidence can occur as a result of drilling this well.

Eolian (wind-laid) deposits occur locally as blow sands and specialized dune types, i.e., longitudinal dunes (DES, 1979). The effects of these windblown deposits depend upon the characteristics of any particular wind at a given time. If winds are light and sand/silt volumes insignificant, rig operations and safety would not be jeopardized. On the other hand, if winds are high with associated significant sand/silt volumes, rig operations and safety could be impaired. Safety would be compromised as rig personnel respond to the irritation to eyes and skin. Detrital sand materials in significant volumes may also contribute to the improper functioning of rig and associated machinery.

The unpredictable nature of local wind patterns precludes the effective mitigation of the adverse effects to rig personnel and operations resulting from windblown deposits except that, if safety of operations is significantly disrupted, the rig should be shut down until safe operations can be resumed.

It is noted here that the construction of the wellpad and 50' of access road will require the stripping of vegetation which will, in turn, break down soils to the point where approximately .5 acre of new, local, potentially significant sand/silt deposits would be made available to site-specific winds.

U. S. GEOLOGICAL SURVEY - CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. 415 390

OPERATOR: SW Energy

WELL NO. 27-2

LOCATION: 1/4 NW 1/4 NE 1/4 sec. 27, T. 23S, R. 17E, 56m

Grand County, Utah

1. Stratigraphy: Entrada surface

Carmel ~500	Hemosa 4050
Navajo 600	Salt 5200
Kayenta 910	Mississippian 8400
Wingate 1030	
Chalk 1570	
Moenkopi 1950	
Coconino 2550	
Lower Permian 3100	

2. Fresh Water:

Probable large amounts in Navajo, Kayenta + Wingate

3. Leasable Minerals:

Potash in salt 5200 - 8200'

4. Additional Logs Needed:

adequate

5. Potential Geologic Hazards:

salt section anticipated by driller. ~~However~~ should be no problem Possible high water flow or loss in Navajo-Wingate

6. References and Remarks:

UGMS - salt wash field study

Signature: [Signature]

Date: 7 - 28 - 87

RECLAMATION PROCEDURES IN GRAND RESOURCE AREA

1. Disk or rip pads and access roads.
 - a. Overlap passes in order to insure complete treatment.
2. Contour pads and access roads.
 - a. Lay berms into centers.
 - b. Use cut material for fill areas.
 - c. Lay stockpiled surface soil over top of pads and spread evenly.
 - d. On highly erosive soils, it may be more beneficial to grade slopes to reduce steepness.
 - e. Do not smooth pads out, leave a roughened surface. On steeper slopes and slopes with clayey soils, scarify or serrate the ground in order to increase water infiltration and reduce erosion.
3. Water bar roads where required by the BLM.

* 2%	Grade -	200 ft. intervals
2-4%	Grade -	100 ft. intervals
4-5%	Grade -	75 ft. intervals
5%	Grade -	50 ft. intervals

* Actual spacing may vary according to soil stability. Lighter textured soils will require more frequent water bars. When natural drainage ways are present, water bars will be constructed to make maximum use of them. Plan operations so that natural drainage ways do not become blocked.
4. Seed roads and pads in the fall (October through mid-December).



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

IN REPLY REFER TO

SUGGESTED COLORS TO PAINT OIL & GAS PRODUCTION FACILITIES

Cisco Desert and Flats below the Bookcliffs:

Dynasty Green	(Sears)
Tumbleweed	(Pratt & Lambert)
Desert Tan	-----
Sage Gray	(Pratt & Lambert)

Bookcliffs Region:

Sage Gray	(Pratt & Lambert)
Sea Life	(Pratt & Lambert)
Dynasty Green	(Sears)

Similar hues other than the ones mentioned above must be approved by the Grand Resource Area Manager.

838

SEED MIXTURE

List #4

Bookcliff

Species

Grasses

<i>Elymus salinus</i>	Salina wildrye	2
<i>Oryzopsis hymenoides</i>	Indian ricegrass	2
<i>Agropyron cristatum</i>	Crested wheatgrass (Fairway crested wheatgrass)	1

Forbs

<i>Medysarum boreale var utahensis</i>	Utah northern sweetvetch	1
<i>Helilotus officinalis</i>	Yellow sweetclover	1
<i>Sphaeralcea coccinea</i>	Scarlet globemallow	1

Shrubs

<i>Amelanchier utahensis</i>	Utah verviceberry	1
<i>Atriplex canescens</i>	Fourwing saltbush (White greasewood)	1
<i>Cowania mexicana</i>	Mexican cliffrose	1

11 lbs/ac

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐

2. NAME OF OPERATOR
S.W. Energy Corporation

3. ADDRESS OF OPERATOR
847 East 400 South, Salt Lake City, Utah 84102

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: NW 1/4 NW 1/4 Section 27
AT TOP PROD. INTERVAL: As Above
AT TOTAL DEPTH: As Above

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐
☐

5. LEASE 0-15390
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Smoot-Federal
9. WELL NO.
27-2
10. FIELD OR WILDCAT NAME
Salt Wash
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 27, T 23 S, R 17 E
12. COUNTY OR PARISH GRAND 13. STATE UTAH
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Smoot-Federal #27-2 was spudded at 3:50 p.m. on Friday, 31 July 1981. The drilling contractor is Leon Ross Drilling Co., Vernal, Utah. A 12 1/2" hole is being drilled to accommodate 9-5/8" surface pipe.

Subsurface Safety Valve: Manu. and Type _____

Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED

Patrick L. Small

TITLE

Consultant

DATE

July 31, 1981

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF SPUD

RECEIVED
AUG 04 1981

Caller: Richard Smoot

Phone: Crescent Junction

DIVISION OF
OIL, GAS & MINING

Well Number: 27-2 - SW Energy

Location: Sec. 27-235-17E NW NW

County: Grand State: Utah

Lease Number: U-15390

Lease Expiration Date: _____

Unit Name (If Applicable): _____

Date & Time Spudded: 7-31-81 3:15 P.m.

Dry Hole Spudder Rotary:

Details of Spud (Hole, Casing, Cement, etc.) _____

12 5/8" 9 5/8"

Rotary Rig Name & Number: Leon Ross Drilling Co.

Approximate Date Rotary Moves In: _____

FOLLOW WITH SUNDRY NOTICE

Call Received By: Diane

Date: July 31, 1981

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well <input checked="" type="checkbox"/> gas well <input type="checkbox"/> other <input type="checkbox"/>
2. NAME OF OPERATOR S. W. Energy Corporation
3. ADDRESS OF OPERATOR 847 East 400 South, Salt Lake City, Utah
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 27 AT TOP PROD. INTERVAL: As above AT TOTAL DEPTH: As above
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <u>TEST AND EVALUATE</u>	

5. LEASE U-15390
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Smoot-Feder
9. WELL NO. 27-2
10. FIELD OR WILDCAT NAME Salt Wash
11. SEC., T., R., M., OR BLM. AND SURVEYOR AREA Sec 27, T 23 S, R 17 E
12. COUNTY OR PARISH Grand
13. STATE Utah
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well has been drilled to a present total depth of 2301 K.B.

Very significant shows have been encountered in the Chinle formation from 1455 - 1757 K.B., as well as excellent shows in the Kaibab from 2250 - 2220 K.B.

Based upon analysis of drill cuttings and electrical logs it has been decided to temporarily suspend drilling operations and in order to fully test and evaluate these potentially productive zones.

As a matter of interest, shows in the above formations have previously been noted in other field wells in Salt Wash, but to date have not been comprehensively investigated.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] for S.W. ENERGY CORPORATION (for November)
TITLE Operator DATE 1 December 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐
well well

2. NAME OF OPERATOR
S. W. ENERGY CORPORATION

3. ADDRESS OF OPERATOR
847 E 4th S, Salt Lake City, Utah 84102

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 27
AT TOP PROD. INTERVAL: As above
AT TOTAL DEPTH: As above

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐

5. LEASE

U-15390

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Smoot-Federal

9. WELL NO.

27-2

10. FIELD OR WILDCAT NAME

Salt Wash

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec 27, T 23 S, R 17 E, SLM

12. COUNTY OR PARISH 13. STATE

Grand

Utah

14. API NO.

43-019-30829

15. ELEVATIONS (SHOW DF, KDB, AND WD)

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Waiting for NorthWest Pipe results on Gas Analysis

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Richard D. Smoot for S.W. Energy Corporation DATE 2 February 1982
TITLE Operator

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

CONFIDENTIAL

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other ☐

2. NAME OF OPERATOR
S. W. ENERGY CORPORATION

3. ADDRESS OF OPERATOR
847 E 400 S, Salt Lake City, Utah 84102

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 27, T23S, R17E

AT TOP PROD. INTERVAL: As above

AT TOTAL DEPTH: As above

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) ☐

5. LEASE MINERALS MANAGEMENT SERVICE
U-1500 GAS OPERATIONS
6. IF INDIAN, ALLOTTEE RECEIVED NAME

7. UNIT AGREEMENT APR 21 1982

8. FARM OR LEASE NAME SALT LAKE CITY, UTAH

Smoot-Federal

9. WELL NO.

27-2

10. FIELD OR WILDCAT NAME

Salt Wash

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec 27, T23S, R17E, SLM

12. COUNTY OR PARISH 13. STATE

Grand Utah

14. API NO.

43-019-30829

15. ELEVATIONS (SHOW DF, KDB, AND WD)

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

A gas analysis test on this well was run by the Northwest Pipeline Co. on April 2, 1982.

The important segments of this test are as follows:

B.T.U.	1079 per S.C.F.
Methane	93.733
Ethane	3.722
Propane	.475
Pentane/Pentane +	1.837

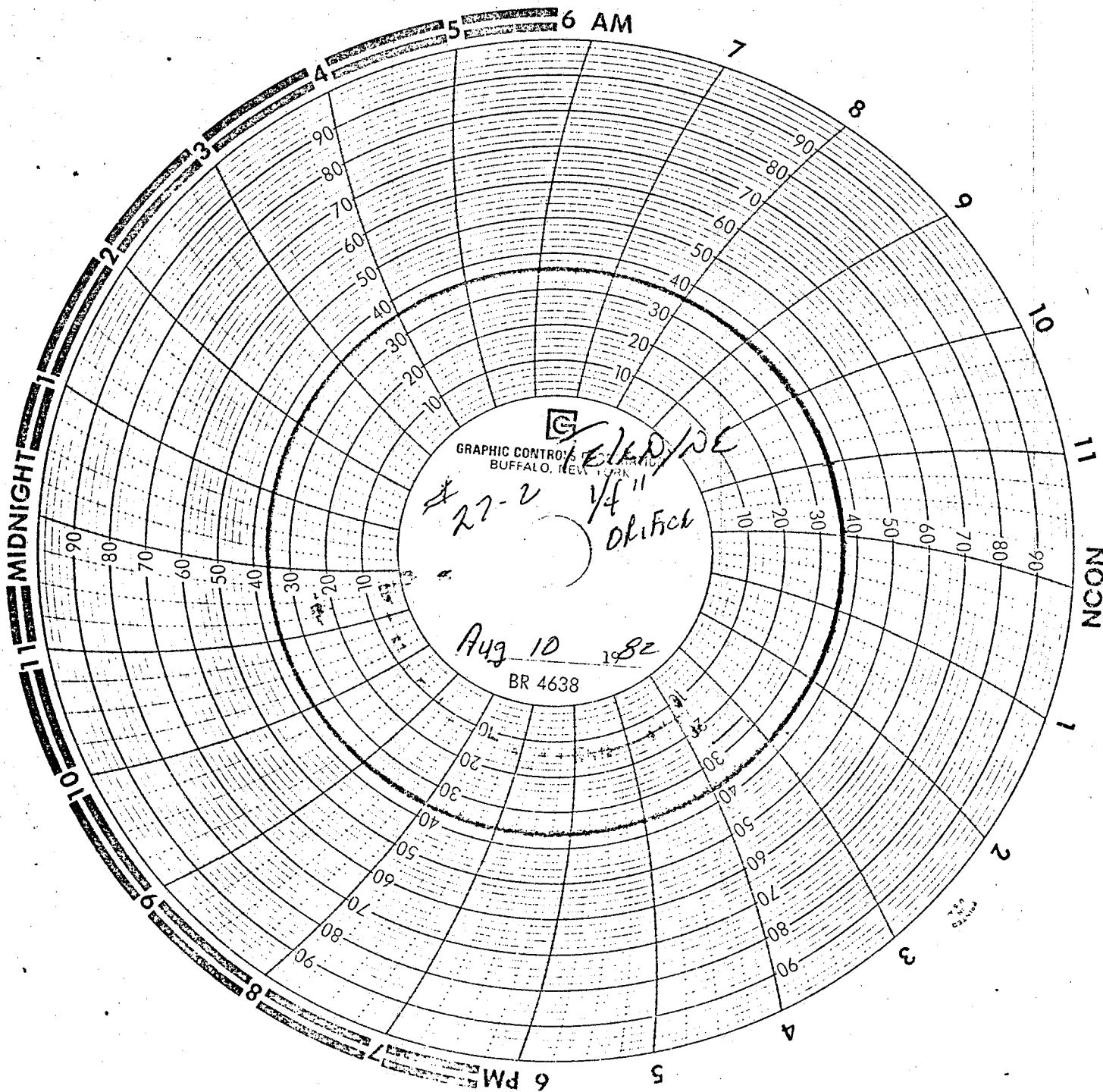
This analysis verifies the existence of a merchantable gas requiring no further processing. The well will be classified as a shut-in gas well until such time as conditions will allow a pipeline hookup. Subsurface Safety Valve: Mand. and Type Set @ Ft.

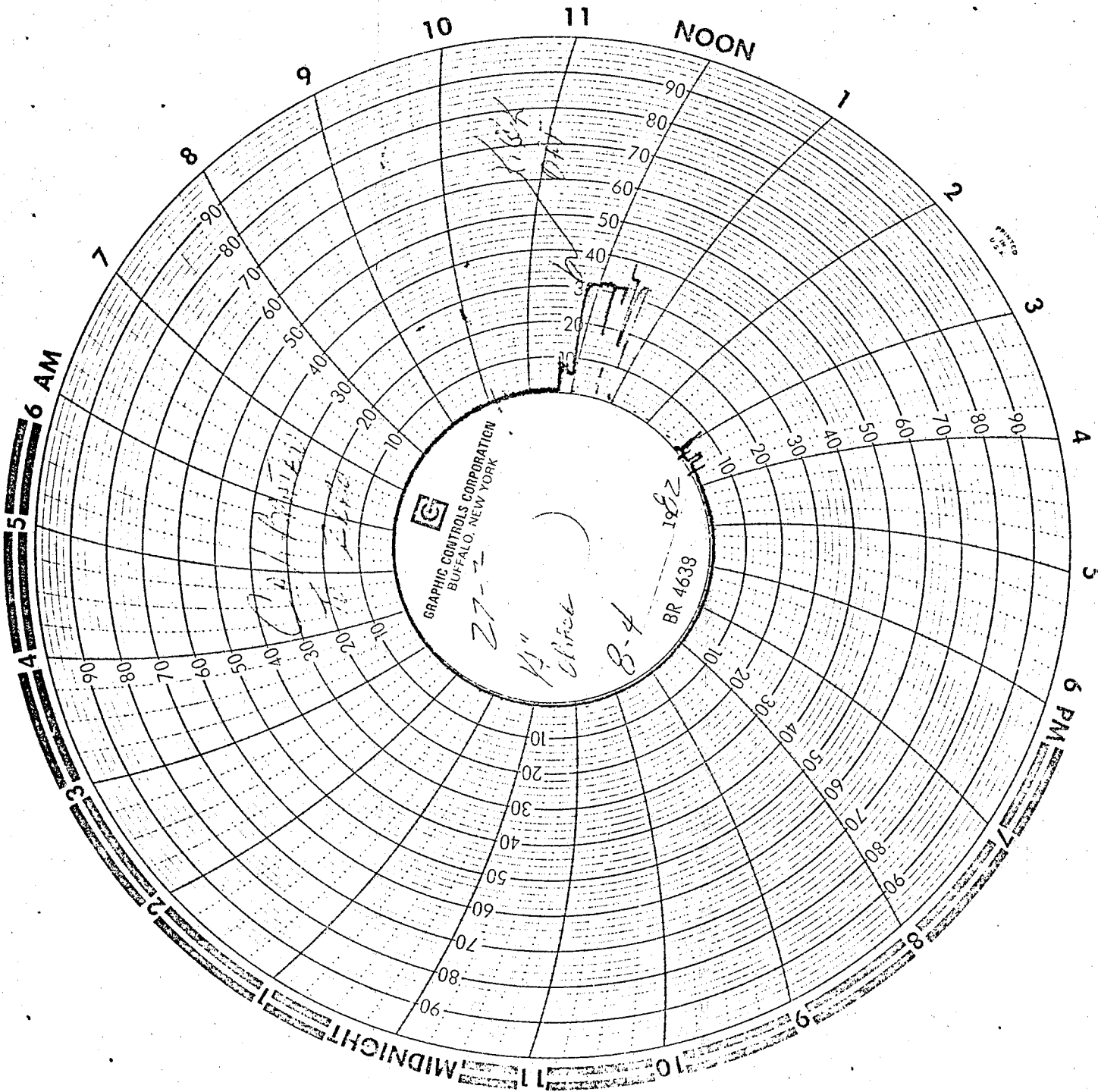
18. I hereby certify that the foregoing is true and correct

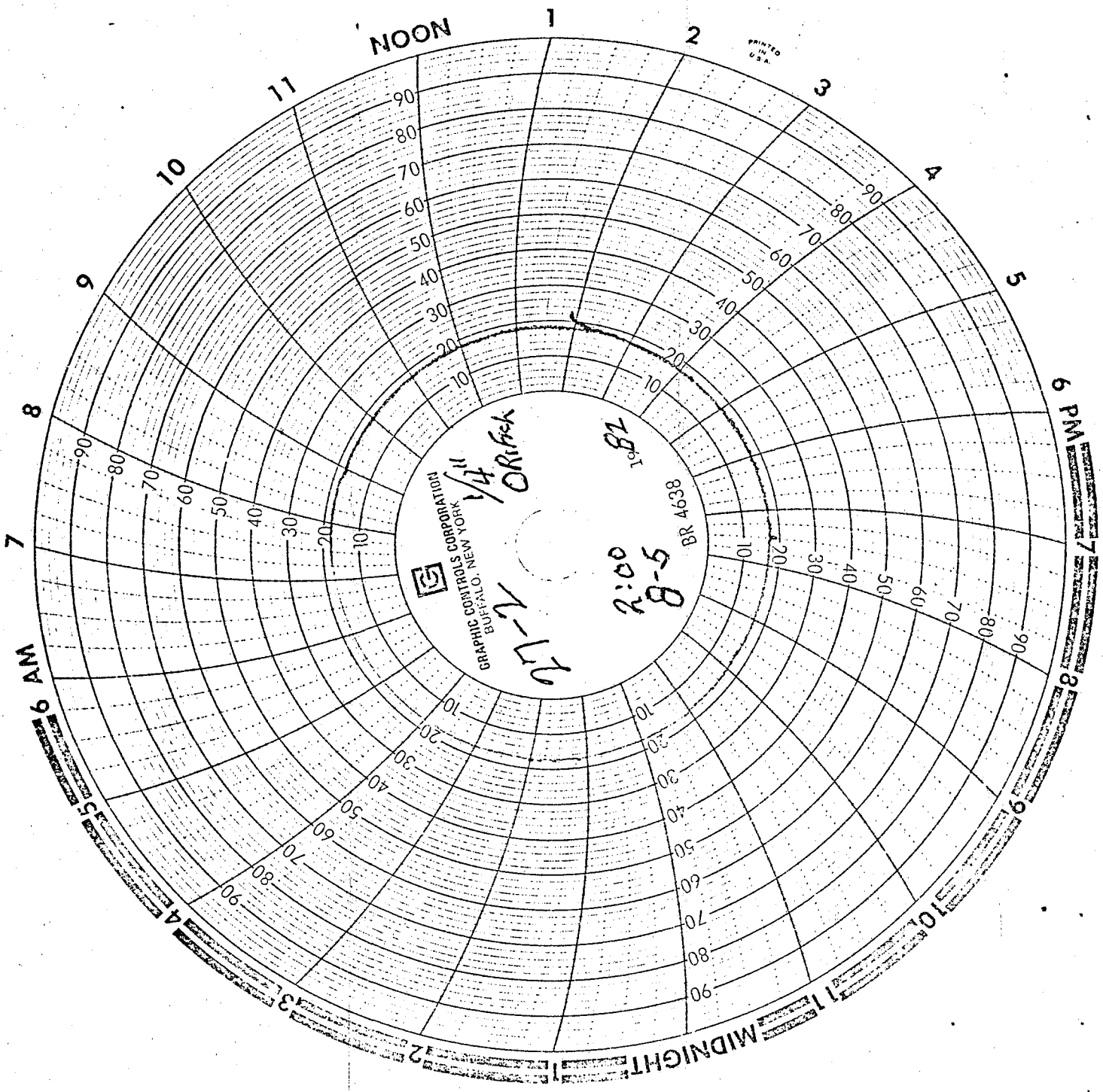
SIGNED Richard J. [Signature] for S.W. ENERGY CORPORATION
TITLE Operator DATE 14 April 1982

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:







GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

11/4 OR 1/4

2-2

5-8 2:00

BR 4638

NOON

PRINTED
U.S.A.

6 PM

7 PM

8 PM

9 PM

10 PM

11 PM

MIDNIGHT

6 AM

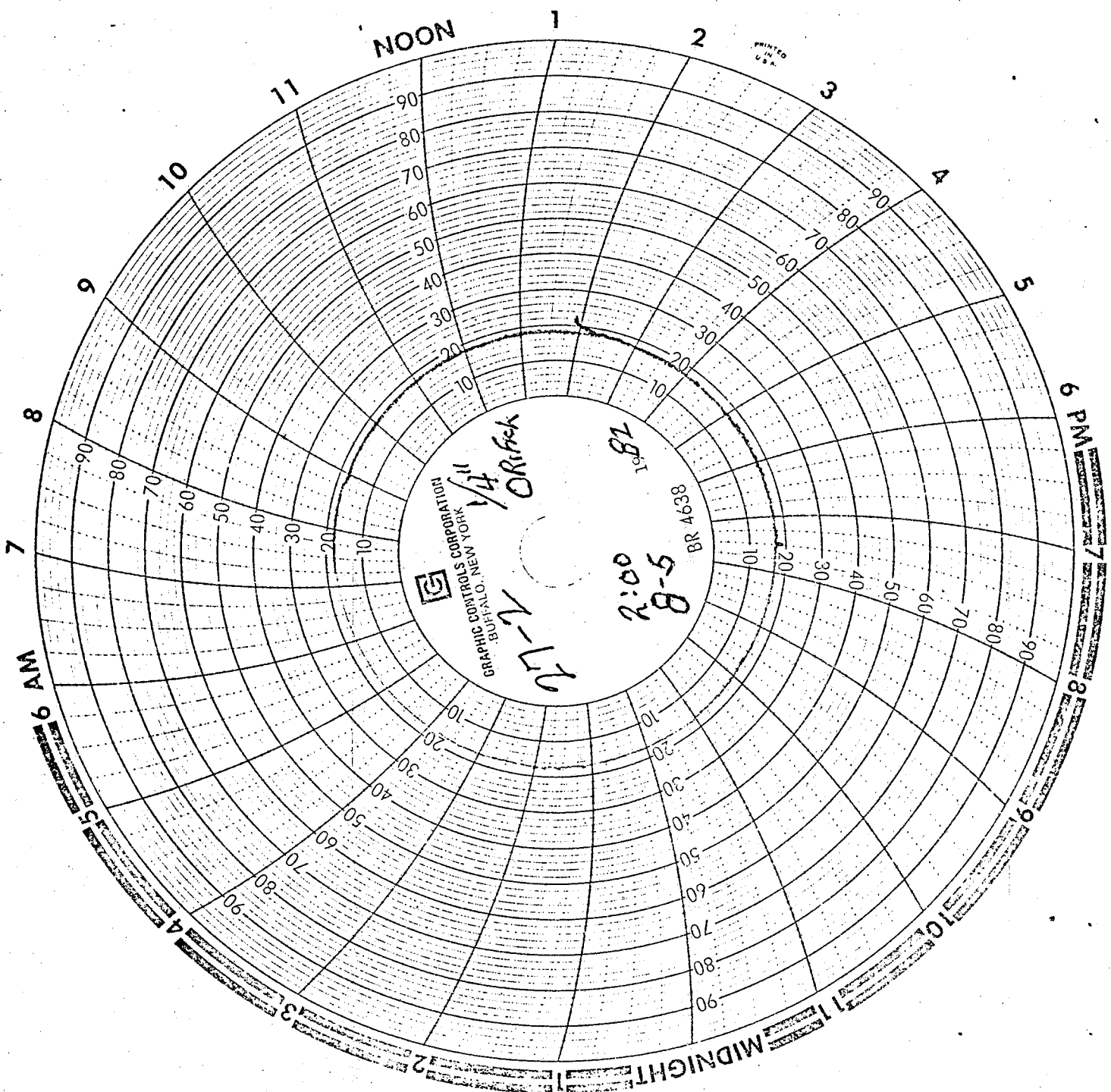
7 AM

8 AM

9 AM

10 AM

11 AM

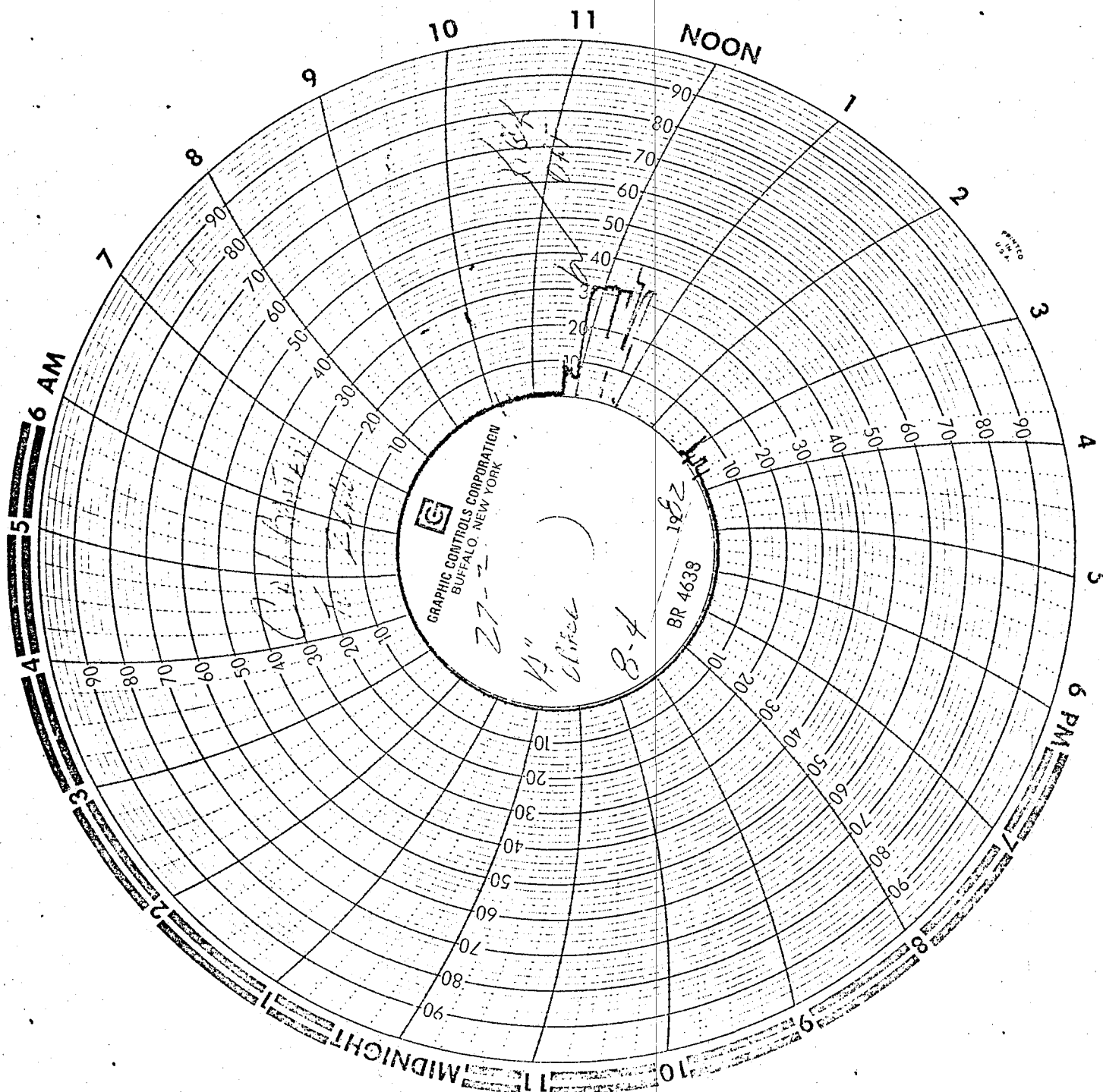


GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

11-2
11/4
ORIG

5-8
2:00
BR 4638

PRINTED
U.S.A.



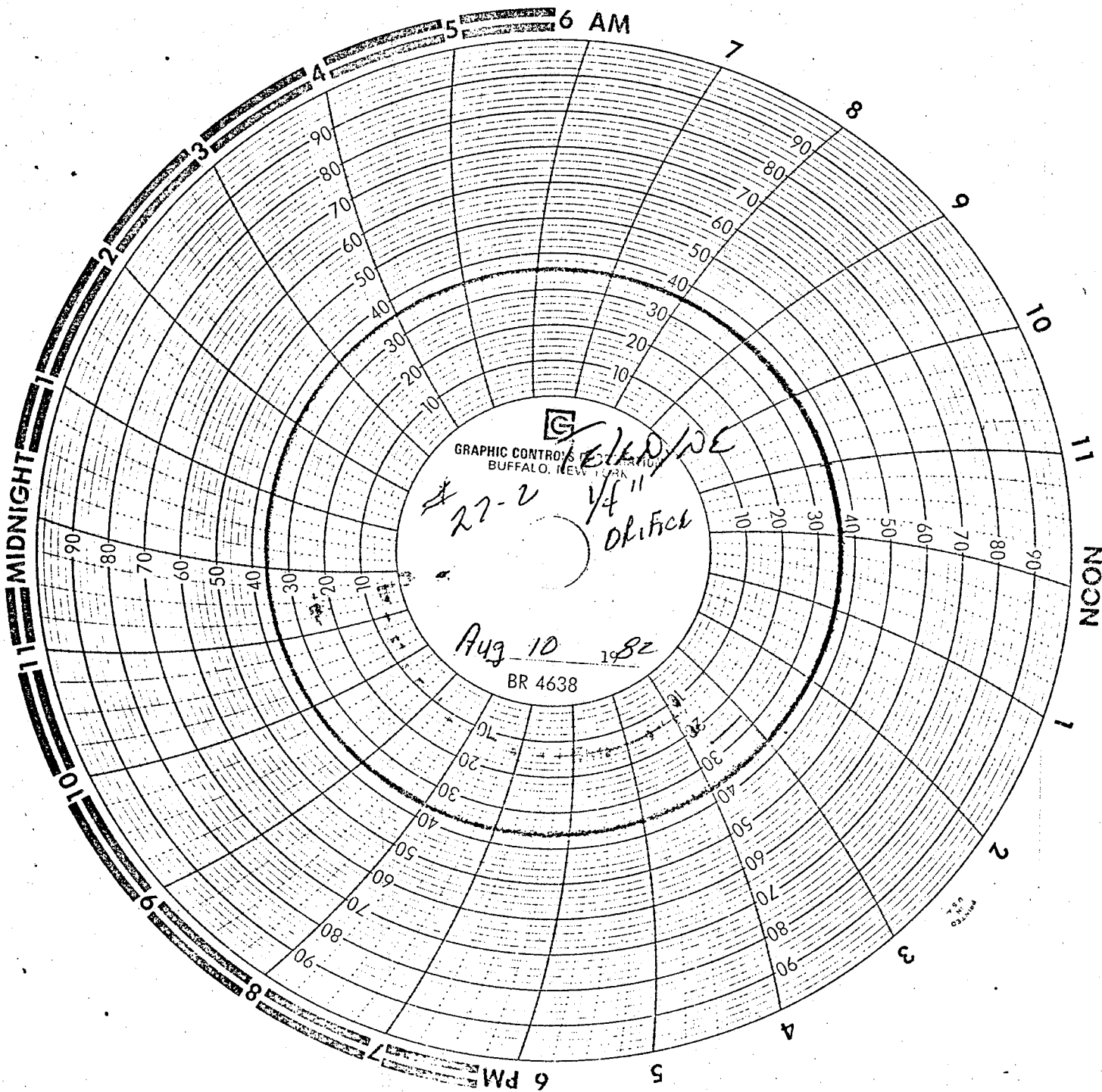


TABLE III

2" ORIFICE WELL TESTER FLOW RATE - MCF/DAY
 BASED ON: 14.65 P.S.I.A., 60° F, 0.60 SP. GR.

Pressure,		Orifice Diameter, Inches							
PSIG	1/16"	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2
1.0	.867	2.76	8.95	19.0	33.9	76	137	233	371
1.5	1.065	3.39	11.02	23.3	41.0	93	169	287	456
2.0	1.231	3.92	12.7	27.0	47.7	108	195	332	527
2.5	1.389	4.42	14.3	31.4	53.4	121	220	374	595
3.0	1.520	4.84	15.7	33.5	59.2	133	242	411	654
3.5	1.652	5.26	17.1	36.3	64.0	144	263	445	709
4.0	1.772	5.64	18.5	39.0	68.8	156	283	480	764
4.5	1.888	6.01	19.5	41.6	73.6	166	301	511	814
5.0	2.007	6.39	20.7	44.2	78.1	175	319	542	863
5.5	2.111	6.72	21.8	46.4	81.8	185	336	571	908
6.0	2.218	7.06	22.9	48.8	86.3	194	353	599	953
6.5	2.315	7.37	23.9	51.0	90.1	202	369	626	995
7.0	2.419	7.70	25.0	53.2	94.5	211	385	653	1036
7.5	2.516	8.01	26.1	55.3	97.8	219	400	677	1080
8.0	2.608	8.30	27.0	57.3	101	227	415	700	1123
8.5	2.699	8.59	28.0	59.3	105	236	429	729	1160
9.0	2.793	8.89	29.0	61.4	108	245	442	754	1198
9.5	2.884	9.18	29.9	63.4	112	251	458	777	1237
10	2.969	9.45	30.8	65.3	116	259	472	802	1274
11	3.142	10.0	32.4	69.4	121	274	499	847	1348
12	3.299	10.5	34.0	72.6	129	288	526	893	1420
13	3.456	11.0	35.9	76.3	134	303	552	937	1490
14	3.644	11.6	37.6	79.7	141	317	577	980	1559
15	3.801	12.1	39.2	83.2	147	331	603	1023	1626
16		12.5	40.9	86.8	153	344	627	1064	1694
17		13.1	42.4	90.0	159	357	652	1105	1760
18		13.5	43.9	93.3	166	370	687	1146	1824
19		14.0	45.5	97.2	171	384	699	1187	1887
20		14.6	47.1	100	177	398	725	1233	1949
21		15.1	48.7	104	183	411	749	1270	2012
22		15.5	50.2	107	189	424	773	1316	2075
23		15.9	51.8	109	193	436	796	1345	2140
24		16.5	53.2	113	200	449	817	1388	2200
25		16.9	54.7	116	205	461	840	1421	2258
26		17.3	56.3	119	211	473	865	1462	2319
27		17.8	57.7	122	216	487	887	1506	2380
28		18.2	59.0	125	222	497	907	1539	2441
29		18.6	60.4	129	226	510	930	1579	2503
30		19.0	61.9	132	231	522	951	1612	2558
31		19.4	63.2	134	237	534	973	1656	2619

The 1/16" plate not recommended.

TABLE IV

2" ORIFICE WELL TESTER
 BASED ON: 14.65 P.S.I.A.

Pressure,		Orifice Diameter		
PSIG	1/8	1/4	3/8	1/2
32	19.9	64.6	137	242
33	20.3	66.2	140	247
34	20.7	67.5	143	251
35	21.2	69.0	147	256
36	21.7	70.3	150	260
37	22.1	71.8	153	27
38	22.5	73.0	155	27
39	22.9	74.4	158	27
40	23.3	75.8	161	28
41	23.8	77.3	164	29
42	24.2	78.6	168	29
43	24.5	80.0	170	30
44	25.0	81.2	173	30
45	25.4	82.7	176	31
46	25.8	83.9	178	31
47	26.2	85.5	182	32
48	26.8	86.8	185	32
49	27.2	88.3	188	33
50	27.6	89.7	191	33
51	28.0	91.1	193	34
52	28.5	92.5	196	34
53	28.9	93.9	199	35
54	29.3	95.3	202	35
55	29.7	96.7	205	36
56	30.2	98.1	208	36
57	30.6	99.5	211	37
58	31.0	100.9	214	37
59	31.5	102.3	217	38
60	31.9	103.6	220	38
61	32.3	105.0	223	39
62	32.8	106.4	226	39
63	33.2	107.8	229	40
64	33.6	109.2	232	40
65	34.0	110.6	235	41
66	34.5	112.0	238	41
67	34.9	113.4	241	42
68	35.3	114.8	244	42
69	35.8	116.2	247	43
70	36.2	117.5	250	44
71	36.6	118.9	252	44



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

May 5, 1982

S. W. Energy Corporation
847 East 4rth South
Salt Lake City, Utah 84102

Re: Well No. Government #18-2
Sec. 18, T. 23S, R. 17E.
Grand County, Utah

Well No. Smoot Federal #27-2
Sec. 27, T. 23S, R. 17E.
Grand County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned wells is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse

Cari Furse
Clerk Typist

** If you would like these wells held confidential, we must have a letter from you stating this. Thank You.

D
S.W. ENERGY CORPORATION
847 EAST FOURTH SOUTH
SALT LAKE CITY, UTAH 84102
TELEPHONE (801) 532-6664

7 May 1982

RECEIVED
MAY 17 1982

DIVISION OF
OIL, GAS & MINING

State of Utah
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

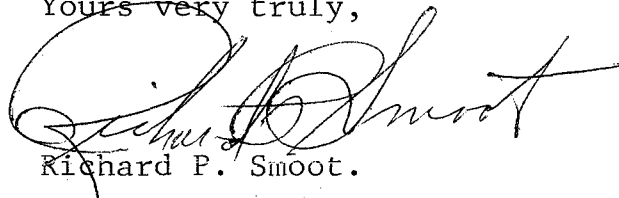
Gentlemen:

Re: Well No. Government #18-2, Sec. 18, T23S, R17E,
and Well No. Smoot Federal #27-2, Sec. 27, T23S, R17E, both
in Grand County, Utah. Would you please keep these wells
in confidential status until notified.

Re: Well No. Federal Gorman #2, Sec. 15, T23S, R17E,
Grand County, Utah. Please place in inactive status until
notified. *Left in drilling.*

Re: Well No. Federal #27-1, Sec. 27, T23E, R17S,
Grand County, Utah. ~~Please remove this well from current
status.~~ Summer of 1983 would be the nearest projected time.

Yours very truly,


Richard P. Smoot.

RPS/ED

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPPLICATE*
(See instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-15390
2. NAME OF OPERATOR S. W. ENERGY CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 847 E 400 S, Salt Lake City, Utah 84102		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 27, T23S, R 17E, SLM		8. FARM OR LEASE NAME Smoot-Federal
14. PERMIT NO. 43-019-30829		9. WELL NO. 27-2
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		10. FIELD AND POOL, OR WILDCAT Salt Wash
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 27, T23S, R17E, SLM
		12. COUNTY OR PARISH Grand
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well completion report on form #OCG-3 will be made after deliverability test has been completed.

See attached report for gas analysis.

RECEIVED
MAY 17 1982

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct for S.W. ENERGY CORPORATION
SIGNED [Signature] TITLE Operator DATE 14 May 1982
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. U-15390
Communitization Agreement No. _____
Field Name Salt Wash
Unit Name _____
Participating Area _____
County Grand State Utah
Operator S. W. ENERGY CORPORATION
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of June, 1982

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
27-2	27NWNW	23S	17E		0	0	0	0	Awaiting deliverability test.

RECEIVED
JUL 13 1982
DIVISION OF
OIL, GAS & MINING

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	0	0	0
*Sold	0	0	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	0	XXXXXXXXXXXXXXXXXX
*Used on Lease	0	0	XXXXXXXXXXXXXXXXXX
*Injected	0	0	0
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	0
*Other (Identify)	0	0	0
*On hand, End of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXXXX

Authorized Signature: [Signature] Address: 847 E 400 S, Salt Lake City, Utah
Title: Operator Page 1 of 1 84102

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(FORM 9-329)

(2/76)

OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. U-15390
Communitization Agreement No. _____
Field Name Salt Wash
Unit Name _____
Participating Area _____
County Grand State Utah
Operator S. W. ENERGY CORPORATION
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of August, 19 82

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).


Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
27-2	27NWNW	23S	17E	GSI	0	0	0	0	Copies of charts of deliverability test on Teledyne gas tester for August 4, 5 and 10 and flow rate table attached. Estimated 20,000 MCF natural - no stimulation.

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	0	0	0
*Sold	0	0	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	0	XXXXXXXXXXXXXXXXXX
*Used on Lease	0	0	XXXXXXXXXXXXXXXXXX
*Injected	0	0	0
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	0
*Other (Identify)	0	0	0
*On hand, End of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX

*API Gravity/BTU Content

Authorized Signature: Title: OperatorAddress: 847 E 400 S, Salt Lake City, Utah

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

S. W. ENERGY CORPORATION

3. ADDRESS OF OPERATOR

847 East Fourth South, Salt Lake City, Utah 84102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 17, T23S, R17E

At top prod. interval reported below As above

At total depth As above

14. PERMIT NO. API

DATE ISSUED

43-019-30829

12. COUNTY OR PARISH

13. STATE

Grand

Utah

15. DATE SPUDDED

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

19. ELEV. CASINGHEAD

31 July 81

17 Nov 81

DL 4119

GL 4116

KB4120

20. TOTAL DEPTH, MD & TVD

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

2301 KB

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

1460-70 Chinle

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

(1) Compensated Formation Density Log;
(2) Dual Induction SFL with Linear Correlation Log; (3) Log Analysis No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	26#/ft J55	457'	12-3/4"	275 sks Class B, 2% CaCl ₂ --50 sk ret.	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN MD	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)

AMOUNT AND KIND OF MATERIAL USED

DIVISION OF
OIL, GAS & MINING

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
							Shut -in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
			→					
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
		→		20				

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Copy of USGS Form 9-331, completed 14 April 1982, showing gas analysis on well

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

for S. W. ENERGY CORPORATION

Operator

DATE

31 August 1982

*(See Instructions and Spaces for Additional Data on Reverse Side)



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

September 30, 1982

S.W. Energy Corporation
Att: Richard P. Smoot
847 East 400 South
Salt Lake City, Utah 84102

Re: Well No. Government #18-2
Sec. 18, T. 23S, R. 17E
Grand County, Utah

Well No. Federal #27-2
Sec. 27, T. 23S, R. 17E.
Grand County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned wells are due and have not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse
Clerk Typist

CF/cf
Enclosure

KIMBALL LABORATORIES AND CONSULTING

600 EAST 11800 SOUTH
DRAPER, UTAH 84020
Telephone 571-3695

Certificate of Analysis

Date: November 4, 1982
Client: Richard Smoot
847 East 400 South
Salt Lake City, Utah 84102

Sample Number: 10693 27-2

Date received: October 28, 1982

Submitted by: Richard Smoot

Samples analyzed for: Water Purity and Salt

Results:

Total Dissolved Solids

1.666 %

NaCl

1.50 %

Na⁺

5900 ppm

Remarks:

By G. Lyn Kimball
G. Lyn Kimball, Manager

ALL VALUES REPORTED AS INDICATED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

43-019-30829
3 M

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

5. LEASE	U-15390
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME	
9. WELL NO.	27-2 ✓
10. FIELD OR WILDCAT NAME	Salt Lake
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Sec. 27, T23S, R17E, SLM
12. COUNTY OR PARISH	Grand
13. STATE	Utah
14. API NO.	43-019-30829
15. ELEVATIONS (SHOW DF, KDB, AND WD)	

1. oil well <input type="checkbox"/> gas well <input checked="" type="checkbox"/> other <input type="checkbox"/>
2. NAME OF OPERATOR S. W. Energy Corporation
3. ADDRESS OF OPERATOR 847 East 400 South, Salt Lake City, Utah
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: Sec. 27: NW $\frac{1}{4}$ NW $\frac{1}{4}$ AT TOP PROD. INTERVAL: AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <u>Water analysis</u>	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached is a Certificate of Analysis of a water sample with respect to this well.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED: [Signature] TITLE Operator DATE 10 November 1982

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

FILE
Form OGC-3
Away

AMENDED

SUBMIT IN DUPLICATE*
(See other instructions
on reverse side)

14
13 54 0

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

S. W. ENERGY CORPORATION

3. ADDRESS OF OPERATOR

847 East Fourth South, Salt Lake City, Utah 84102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 17, T23S, R17E

At top prod. interval reported below As above

At total depth As above

14. PERMIT NO. API

DATE ISSUED

43-019-30829

12. COUNTY OR PARISH

Grand

13. STATE

Utah

15. DATE SPUDDED

31 July 81

16. DATE T.D. REACHED

17 Nov 81

17. DATE COMPL. (Ready to prod.)

10 Aug 1982

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

DL 4119

GL 4116

KB4120

20. TOTAL DEPTH, MD & TVD

2301 KB

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY*

N/A

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

10-2301

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

1460-70 Chinle Open hole 457'-2301'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

(1) Compensated Formation Density Log;

(2) Dual Induction-SFL with Linear Correlation Log; (3) Log Analysis

27. WAS WELL CORED

No

28.

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	26#/ft J55	457'	12-3/4"	275 sks Class B, 2% CaCl ₂ --50 sk ret.	

29.

LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					None		

31. PERFORATION RECORD (Interval, size and number)

Open hole 457'-2301'

32. ACID, SHOT, TEMPERATURE, GEL, SQUEEZE, ETC.

DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED

None

33.*

PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
8-10-82		Flowing					Shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
8-10-82	24	Open	→	0	53MCF	Nil	N/A	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
40psig	--	→	0	53	0	N/A		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented while testing

TEST WITNESSED BY

Garth Freeman

35. LIST OF ATTACHMENTS

Form OGC-3

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Thomas E. Walter

TITLE

Consulting Petroleum Engineer

DATE

16 April 1983

*(See Instructions and Spaces for Additional Data on Reverse Side)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-15390

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Smoot-Federal

9. WELL NO.

27-2

10. FIELD AND POOL, OR WILDCAT

Salt Wash

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec 27, T23S, R17E

12. COUNTY OR PARISH 13. STATE

Grand

Utah

OIL ☐ WELL GAS ☒ WELL OTHER

2. NAME OF OPERATOR

S.W. ENERGY CORPORATION

3. ADDRESS OF OPERATOR

847 East Fourth South, Salt Lake City, Utah 84102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 27, T23S, R17E, SLM

14. PERMIT NO.

43-019-30829

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well plugged by Dowell Schlumber Incorporated on 14 October 1987

Instructions on plugging of the specific plugs was given on site by Mr. James Monroe of the BLM Office. Schlumberger followed BLM instructions in the plugging of 27-2 and adjacent water well.

Plugging was witnessed by Jim Monroe of BLM Moab Office

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Chairman

DATE 10 February 1988

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side